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The Missouri Miner, July 01, 1916

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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Mo.

Vol. 2, No. 37.

Friday, July 1, 1916.

Price 5 Cents

Ozark Press Association Meets in Rolla.

The Ozark Press Association held its annual meeting in Rolla on June 23rd and 24th. The meetings were held in the library reading rooms of Parker Hall. Col. Charles L. Woods of the Rolla Herald, welcomed the guests in behalf of the city, while Director A. L. McRae performed a like service in behalf of the School of Mines. P. A. Bennett, president of the association, responded to the welcoming speeches. After the meeting the visiting editors were shown around the campus. Many expressed surprise at the fine buildings and the well-kept grounds.

On Friday evening the Rolla Commercial Club tendered the visiting editors a banquet at the Grant House. Dr. A. L. McRae acted as toastmaster and called for many toasts from his guests. Pres. P. A. Bennett of Buffalo, Mo.; W. H. Zorn, of West Plains

and Dean Walter Williams of the School of Journalism, University of Missouri, were among those responding. Dean Williams told several amusing anecdotes and proved his versatility as an after-dinner spell-binder.

At nine o'clock the guests adjourned to Jackling Gymnasium where a Grand Ball was given in their honor. The editors did not join in the dancing very much as they were busy initiating some prospective members into the "Yellow Dog." Several editors and members of the Rolla Commercial Club were "put thru" the mysteries of the degree. Falkenhainer's Orchestra furnished the music and everybody had a good time, especially during the old-fashioned "square dances."

On Saturday the business meeting adjourned at 11 a. m. In the afternoon automobiles from Rolla conveyed the visitors

to St. James where they visited the Old Soldier's Home. A dinner was served to over 200 people at the Soldier's Home by the people of St. James. A trip to the Meramec Springs was the next thing on the program. After enjoying the scenery the party returned to St. James where they boarded the trains for their respective homes.

Complete Football Schedule, 1916.

Sept. 30—James Milliken U. at Rolla

Oct. 13—Osteopaths, at Rolla.

Oct. 21—Uni. Arkansas, at Fayetteville, Ark.

Oct. 28—Wash. Uni., at St. Louis, Mo.

Nov. 3—Warrensburg, at Rolla.

Nov. 10—Drury, at Rolla.

Nov. 17—Texas A. & M., at College Sta., Texas.

Nov. 30—Henry Kendall, at Tulsa, Okla.



JACKLING GYMNASIUM AT THE SCHOOL OF MINES.

1916 CLASS.

B. W. Adams, Operating Department Commonwealth Edison Co., Chicago, Ill.

B. L. Ashdown, James Stuart Const. Co. New York, N. Y.

M. L. Cepeda, Gamer Palacio Duroyo Mexico.

E. V. Damotte is with the county highway engineer of Phelps County, Rolla, Mo.

R. S. Dean, Instructor in Chemistry, Harvard Uni.

J. J. Dowd, Superior Mine, Houghton, Md.

Green Erskine——?

Lucian Erskine, Butte & Superior Copper Co., Butte, Mont.

Chas. Gold, Bartlesville Zinc Co., Collinsville, Okla.

Fred Grotts, Laclede Gas Light Co., St. Louis.

J. L. Head, Doe Run Lead Co. Rivermines, Mo.

H. T. Heimberger, Milwaukee Railway & Light Co., Mil., Wis.

L. W. Hoppock, T. S. DeLay & Co. Municipal Engineers, Creston, Ia.

G. E. Johnson, Arizona Copper Co., Morenci, Ariz.

E. A. Jones, Operating, Joplin Mo.

H. E. Koch, Atlas Portland Cement Co., Hannibal

O. L. Lumaghi, Lumaghi Coal Co., Saint Louis, Mo.

J. R. Maher, Chamberlain & Edwards, Civil Engineers, Eldora Iowa.

W. H. McCartney, Picher Lead Company, Joplin, Mo.

T. P. McCague, Edwards & Chamberlain, Civil Engineers, Eldora, Ia.

E. J. McNely, Indian Steel Co. Indiana Harbor, Ind.

E. A. Miller, Old Dominion Copper Co., Globe, Ariz.

J. C. Miller is studying in Rolla for an army appointment.

D. H. Morgan is with the United Railway Co., St. Louis.

H. A. Neustaedter, American Chemical Co., Mineral Va.

C. A. Pierce, 3417 Virginia Ave., K. C.

E. L. Sailer, Civil Engineer,

Cape Girardeau.

J. M. Schuman, Rolla, Mo.

L. X. Smith, Arizona Copper Co., Morenci, Ariz.

C. G. Stifel——?

W. W. Weisbach, Operator, Joplin, Mo.,

Degrees Conferred Commencement, May 26, 1916.

Engineer of Mines.

George Hewitt Boyer

Hector Boza

Thomas Samuel Carnahan

Homer Kent Sherry

Theodore Saunders Dunn.

Metallurgical Engineer.

Charles Yancey Clayton

Alexis Xavier Illinski

Norman Lloyd Ohnsorg

Robert Glenn Sickly.

Civil Engineer.

Ralph Robert Benedict

Ernst Lorenz Chamberlain

Arch Waugh Naylor.

Master of Science.

Reginald Scott Dean.

B. S. in Mine Engineering.

Robert Stanley Burg

Earl George Deutman

James Joseph Dowd

Walter Gammeter

Charles Berliand Gold

James Lawrence Head

John Stone Hoffmann

Octavius Louis Lumaghi

William Henry McCartney, Jr.

Holman Thompson Marshall

John Charles Miller

Harold Arthur Neustaedter

Colwell Arba Pierce

Carl Godfried Stifel

George Edgar Ude

Herman Herbert Vogel

Walter William Weissbach

B. S. in Metallurgy.

Gunnard Edmund Johnson

Hugo Edward Koch

Earl Joesting McNely

Clarence Eugene Peterson

B. S. in Civil Engineering.

Byron Lee Ashdown

Emil Lucius Beyer

Edward Victor Damotte

Louis Needham Hoppock

Thomas Purcell McCague

John Ralph Maher

Don Hawk Morgan

Edward Louis Sailer.

John Morris Schuman.

B. S. in General Science.

Bernard William Adams

Azmon Thurman Dunham

Frederick Grotts

Greene Erskine

Edwin Alexander Kayser.

Sport Notes.

With practically all of the men summering in the various camps thruout the West, it is as yet a hard problem to figure out how many will return to take up school work in the fall. It is almost a certainty that Wilson, Imlay, Krause, Dowd, Raible, Brazil and Bruce will return to don the moleskins. These men would make a nucleus around which Dennie could build up a football team the equal of the 1915 organization at least.

The schedule calls for games with Washington, Arkansas, Texas A. & M. and Henry Kendall, to say nothing of the strong college teams that the Miners will play against in the 1916 season. To play a schedule of such magnitude, and play it successfully, will necessitate an extraordinary amount of training by the men to keep in the best of condition possible. Coach Dennie expects a large squad when the first practice is called in September on Jackling Field.

The Stuff That Counts.

"Your boys (M. S. M. baseball team) made a fine exhibit here last spring at baseball. By their courteous manner and excellent behavior they won the respect and esteem of every one."

Track M. Men.

Brazil, Goodman, Heman, Imlay, Murphy, Peterson C. A., Peterson C. E., Scruby, Wilson J. G.

F. E. DENNIE.

THE MISSOURI MINER

A weekly paper published by the Students, in the interest of the Alumni, Students and Faculty of the Missouri School of Mines and Metallurgy, Rolla, Mo.

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An Extract From a Letter Received By Dr. McRae.

"The Rolla bunce up here is making good with a vengeance and I believe they are getting experience really worth while." They are doing everything from prospecting to driving motor trucks."

Fishing Party.

Jesse Cunningham, librarian St. Joseph, Mo., Public Library, and George C. Willson, of St. Louis, are coming to Rolla July 14, to join Professor Harris, McCandliss, Cox, McRae and Kahlbaum, for a floating trip down Big Piney and Gasconade Rivers.

Baseball M. Men.

Bates, Dawson, Dowd R, Gollick, Kamp, Raible, Skeen, Smart, Wilson J. G., Wilson K., Zeuch.

LOCALS.

Wayman Crow is in Joplin for the summer.

Fred A. Moore, '08, has gone to Cobalt, Ont.

C. C. Rice, '19, is with the Homestake Co., Lead, S. D.

Prof. C. R. Forbes is visiting at his home in Topeka, Kan.

Elmer List, '10, is smelter superintendent at Nevada, Mo.

J. S. Irwin, '12, is assayer and mine surveyor Caribou, Colo.

Leslie Harlow, ex-'17, will return to school next September.

Don H. Morgan, '16, is with the United Railway in St. Louis.

J. W. Pugh hangs out at Webb City with the American Zinc Co.

E. B. Weiberg is with the Picher Lead Co., Henrietta, Okla.

T. C. Hoo is attending Chicago University for the summer session.

E. O. Stoliker, '14, is chemist for the Kusa Smelter, Kusa, Okla.

Prof. D. H. Radcliffe is at 211 Lynch Bldg. Tulsa, Okla. for the summer.

Prof. and Mrs. V. B. Hinseh are visiting relatives in Davenport, Ia.

J. H. Bock Jr. is with the Blue Bell mine Mayer, Ariz. for the summer.

H. D. Kline, '16, is with the Nevada Consolidated Copper Co., Ruth, Nev.

G. W. Walton, '19, is time keeper for a mining company at Webb City.

H. Smith Clark is working in the Experiment Station during the summer.

Howard M. Katz, '13, has been ordered to the front with the Florida Militia.

Yaro Klepel, '16, is with the Nevada Consolidated Copper Co., Ruth, Nevada.

J. S. Hoffmann is with the Black Hills Tungsten Mining Co. Hill City, S. D.

Fred Hauenstein, '03, is engineer for Pine Belt Lumber Co. Ft. Towson, Okla.

Professors McCandliss, Risher and Ingram are conducting summer school classes.

Thompson Alexander, '01, is Civil Engineer with Frisco railroad DeQuincy, La.

W. M. Benham, '15, is on patrol duty with the Arizona Militia on the Mexican border.

Edgar Ude, '16, is assistant chemist for the Detroit Copper Co. at Morenci Ariz.

R. S. Burg, '16, is at Caribou, Colo., starting up a mineral separation flotation plant.

C. A. Peterson is with the General Electric Co., Schenectady N. Y. for the summer.

E. L. Beyer, '16, is with the Missouri Valley Bridge and Iron Co., Leavenworth, Kan.

T. F. Golick and W. R. McComb are doing special work in the flotation laboratory.

Dr. J. W. Barley is teaching English in Maryville State Normal School this summer.

J. G. Wilson is with the Butte and Superior Copper Co., Butte, Mont., for the summer.

W. B. Mix, '08, and family of Edwardsville, Ill., are visiting Mrs. T. D. Smith of Rolla.

J. J. Brown Jr., '05, is Vice President of the Planet Oil Refining Co., Blackwell, Okla.

Charles Gold, '16, is assistant chemist for the Bartlesville Zinc Company at Collinsville, Okla.

R. O. Shriver is working for Ellett and Burt Const. Co. He is on a job in Hutchinson Kans.

T. P. F. Walsh is in the Calumet and Arizona Smelter Co. at Douglas, Ariz., for the summer.

P. B. Shotwell, '17, and H. F. Spickard, '18, are in Bisbee, Ariz., making \$5.50 a day, mining.

Prof. Geo. R. Dean is working on his new dynamo and expects to complete it during the summer.

mer.

J. S. Webb, '19, is working for the Nevada Consolidated Copper Company at Ruth, Nev. for the summer.

Edwin A. Kayser, '16, is assistant engineer with the Eayler Mining and Milling Co. at Gilman, Colo.

R. J. Anderson is in the heat treatment department of the American Rolling Mill Co., Middletown, Ohio.

Herman Vogel, '16, and Joe Barton are in the underground department of the American Zinc Company, Mascot, Tenn.

Professors Harris, Forbes, Bowen, McCandliss and Dr. McRae are members of the rejuvenated Rolla Commercial Club.

Prof. N. C. Hutsinpillar will study during the summer vacation at the University of Chicago for his Master's degree.

S. Nakagawa of the Imperial Bureau of Mines Tokio, Japan, visited the Geological Survey and the School of Mines June 13, 1916.

D. E. Andrus, '13, is with Hatcher and Carpenter Mining Engineers Tucson, Ariz., and is making good as a mining engineer.

Prof. and Mrs. Clayton have returned to Rolla after spending the month of June at Hannibal, Mo., with Mr. and Mrs. Geo. D. Clayton.

W. S. Erskine has completed the quantitative analysis laboratory in the summer school and has gone to work in the mines at Webb City.

Dr. A. L. McRae attended Commencement Exercises at Mo. Uni., Columbia Mo., and responded to a toast at the Phi Beta Kappa dinner.

M. S. M. men at Hayden, Ariz: R. F. McCrae, L. S. Copelin, E. W. Englemann, Walter E. Soest, W. W. Pierce, C. G. Williams, D. H. Fairchild and L. M. Baker.

Director A. L. McRae attended

the annual meeting of the Society for the Promotion of Engineering Education at Charlottesville, Va. June 19th to 22d.

J. S. Brown, '17, is in the mill and H. A. Lask, '17, is on Diamond drill work for the St. Joseph Lead Co., Bonne Terre, Mo.

George V. Bland, '04, general manager of the Black Hills Tungsten Mining Co., Hill City, S. D. was married in St. Louis Wednesday June 7, 1916, to Miss Cartan.

C. E. Bardsley, '18, and W. R. Cox, '18, are with the valuation division of the Wabash Railway for the summer vacation working between St. Louis and Kansas City.

R. R. Dickerson, superintendent of grounds, is putting down sidewalks on the east and north side of the campus and improving the roadway back of the Metallurgy building.

H. J. Schiermeyer and H. O. Horner are spending the summer with the A. S. & R. Omaha, Nebr. where they have received appreciated consideration from F. L. L. Wilson, '03.

Mrs. Sumner C. Macomber and daughter, Mattie Locke, wife and daughter of S. C. Macomber, '11 of Tipton, Calif., are spending the summer in Rolla with Dr. and Mrs. A. L. McRae.

Glen Sherman, a lawyer of Kansas City, and an old foot ball player on the Kansas University team about fifteen years ago, was in Rolla June 23th and visited the School of Mines.

J. C. Wright of the Bureau of Mines who is conducting milling experiments on the zinc ores of the Joplin district was in Rolla June 6, in consultation with H. A. Buehler State Geologist.

Professors Harris and McCandliss attended the Ozark Trails Good Roads meeting in Springfield June 27th and 29th. Professor Harris delivered an address before the convention.

V. W. Balderson, '18, has a position with the civil engineering division, valuation department of the Interstate Commerce Commission. He will work in Colorado under the Kansas City office.

C. W. Hippard and Ralph Dale are working for the Copper Queen at Bisbee, write and with appreciation of the courtesies extended them by E. H. Broughton, '12, when they first reached Bisbee.

The following M. S. M. men are in the Atlas Portland Cement Company's plant at Hannibal: R. E. Hoffman, J. L. Schnitzer, G. F. Metz, L. J. Boucher, R. W. Hayden, K. I. Gannon and H. E. Koch.

Prof. G. T. Wilkinson, instructor in modern languages, will go to Columbia University New York City in September where he will be instructor in Romance languages and will study for his Ph. D. degree.

W. D. Meng, who edits the Missouri notes in the Kansas City Star, was in Rolla June 23d and 24th attending the Ozark Press Association and was much interested in the work the School of Mines is doing.

Technical Series No. 4, Vol. II Geological Criteria for determining the Structural position of Sedimentary beds by Professors Cox and Dake has just been issued. Copies can be had free of charge by interested parties.

Mervin J. Kelly, '14, Instructor in Physics at Kentucky State University, Lexington, Ky., will receive the M. S. degree in June and for the next two years will be in the Ryerson Physical Laboratory University of Chicago.

H. W. Doenneke, J. E. Flanders, P. H. Bohart, L. B. Benton, C. E. Peterson, L. H. Goldman, M. P. Brazill and W. C. Durning compose the Rolla contingent summering at the Black Hills Tungsten Mining Co., Hill City, S. D.

Thirteen is no longer unlucky. M. C. Lucky is the thirteenth M. S. M. at the Chino Copper Co., Hurley, N. Mex. Besides the regular contingent, L. R. Scheurer, R. C. Henschel and M. C. Lucky are the summer contingent.

J. Chas. Miller exhibited an M. S. M. mineral collection consisting of Pb, Cu, Zu, Sn, Sb, Hg, Fe, Au, Ag, W. K. and Radium at each of the St. Louis High Schools. Great interest was displayed by the students who saw the exhibit.

G. E. Johnson, '16, is located in Morenci, Ariz. and will work in the chemical laboratory on electrolytic coppers. He writes that Bill Porri, '12, H. L. Tedrow, '09, D. L. Forrester, '11, W. W. McMillan, ex-'03, J. W. Shotwell, '15, and L. X. Smith, '16, are in Morenci doing well.

A study has been made of 17,000 graduates of Harvard and Yale and it has been found that twelve times as many good students make good in after life as do mediocre students. In other words a good student's chances of success are twelve times as good as a mediocre student's chances.

Dr. and Mrs. Jacob Brown Young of Worthington, Ind., announce the marriage of their daughter Ruth Amelia to Azmon Thurman Dunham, '16. Thursday June 1, 1916. Mr. and Mrs. Dunham will be at home after July 1st at Butte Mont., where Dunham has a position with the Butte and Superior Copper Co.

At the request of Hon. F. Goltz, National Committeeman from Missouri, gavels were made in the School of Mines shops for the temporary and permanent chairmen of the Democratic National Convention in St. Louis, June 14, 1916. The gavels were made from a walnut log used as a cap sill in the old building near the Frisco depot in Rolla. This building was erected in 1761 by

the U. S. Army and was recent-torn down. The handles were made from oak timbers dug up when excavating for the foundation for Norwood Hall. These timbers formed a part of Fort Detty and had been buried in the ground since the Civil War.

Taking Summer School at M. S. M.

The following men are taking Summer School work at M.S.M.:

Aid, Harry
Anderson, S. L.
Burkhart, E. C.
Bruce, R.
Clark, H. S.
Crenshaw, J. R.
Ebmeyer, G. E.
Erskine, W. S.
Golick, T. F.
Gotsch, O., Jr.
Hansen, K. F.
Kamp, H. G.
Lang, F. R.
Larsh, N. B.
Lottmann, W. F.
McComb, W. R.
Moore, F. V.
Nolte, Wm.
Oyler, W. E.
Petsch, A. H.
Powell, W. C.
Scott, J. W.
Schuman, E. K.
Shore, H. F.
Tao, H. T.
Weeks, A. L.

SUCH A LANKWITCH.

Our language is a curious thing—

It is, upon my word!

A crowd of folks we call a "throng,"

A throng of deer a "herd."

A herd of geese we term a "flock,"

A flock of ships a "fleet,"

A "bevy" is the synonym

We use for maidens sweet.

A group of cops we call a "squad,"

A squad of thieves a "band,"

No wonder aliens find our tongue

So hard to understand.

A band of wolves we call a "pack,"

A pack of bees a "swarm,"

A swarm of herring is a "shoal"

So lexicons inform.

Our noisy kids we term a "troop,"

A "gang" if hoodlums they.

If of barbarians we speak

A "horde" is what we say.

—Ex.

Zinc Oxide From Zinc Ashes.

A new feature in American zinc metallurgy is the recovery of additional zinc from the residues remaining after distillation in the retorts. Of course, about all the zinc capable of reduction and distillation ought to be extracted in the retorts, but in American practice the distillation is not ordinarily performed at high temperature, relatively speaking. Probably the furnaces and retorts of the American clays commonly used would not stand it. Therefore there remains in the discharged residues a considerable proportion of zinc that can be burned off by other means, can be collected as oxide, and there is sufficient unburned reduction coal in the residues to effect that.

The supplementary extraction of zinc was first done at Bartlesville, Okla., where the burning was conducted in heaps. Some work in this direction was also done at Cherryvale, Kan. Several companies are now planning to do this by means of Wetherill grates, either making pigment or crude oxide to go back to the spelter furnaces. The cost of the burning is estimated as low as \$2 per ton, which is not unreasonable, considering that no coal has to be bought.

A suffering traveler beseeches the Dorr company to get out a line of small thickeners for country-hotel proprietors to use on their coffee. A "clear coffee overflow" could be guaranteed, the s. t. thinks, and the grounds could be settled to a greater density than can now be obtained by the guest through free settlement in his coffee cup. In this way the securing of clear solution could be removed from the feeding period and placed in a separate closed circuit.—Engineering and Mining Journal.

Subscribe for the Miner.

Hazing at the Missouri School of Mines.

Hazing at the Missouri School of Mines follows a more or less definite plan. During the first week of school in September, the freshmen are interrupted from their various occupations, and are "taken out" by the sophomores. On the Sunday evening of the next week the freshmen are requested to leave town. The latter find refuge at the Fair Grounds, which is about one-half of a mile from town. The refugees may gather on the grandstand, under some of the many hay stacks, or else in one of the near-by barns. The next morning they have a frugal meal, perhaps only a cup of coffee, at a neighboring farm house. The march to the campus is then begun. The freshmen line up four abreast and march singing into town. When they arrive at the campus they arrange themselves for the "Green Cap Day" fight with the sophomores. After the scrimmage, as the freshmen generally lose the fight, they are taken for their final hazing. This hazing is done on the athletic field in presence of members of the faculty, upper classmen and the townspeople. The last hazing having been completed, the freshmen are given their green caps, and are told to disperse. They will not again be hazed unless they are of a too assuming nature.

Hazing is criticised by different persons for being cruel; they say that it should be abolished. When the freshmen are taken out during the nights of the first week of school nothing cruel is done. A few little stunts, such as paddling, are gone through with. During the day time, when the freshmen talk to some upper classmen, the latter tell them of dire things that have happened, and that are likely to happen. This is done, partly out of fun in seeing the freshmen shrink with alarm, and also to make them feel small and unim-

portant. They will go to their room feeling that they had better do the right thing, and not try to show any airs. Nothing serious will happen to them if they follow this plan.

There is, of course, a class of freshmen who will not follow this plan. They usually have a very confident and arrogant manner. Being from the senior class in high school they imagine that they are very erudite. If a student starts to college this way, he will probably not see the little amount that he does know. He will flunk a few examinations, but most likely he will say that the professor does not impart knowledge very clearly. He will make many excuses for himself, but he will never think that it is his own stupidity that causes him not to get much from the course. Also he will make a poor comparison, for his over-confident manner is boorish.

The conceit is generally taken from the latter class of freshmen by means which are more humiliating in character than injurious. For example, they will be made to sing a song, to give their high school yell, to make a short talk of their achievements in life, or to roll a peanut on the ground with their nose.

The hazing that the freshmen class as a whole goes through is an affair that adds jest and spirit to college life. The night spent at the fair grounds is more of a lark than a punishment. Many songs are sang, jokes are told, flashlight pictures are taken, and the freshmen become better acquainted. The night is remembered with much enjoyment years after they have left school.

After the next morning's battle, when the freshmen, as a rule, see themselves tied helplessly together, they look upon hazing in a different manner than heretofore. They feel different towards school affairs in general, and they have more confidence in their fellow-students. They

find out that the sophomores treated them squarely, and that no one was unduly imposed upon. They realize that the horrors they had heard of in books and by other means had not been perpetrated, and that no one was hurt.

The physical subjugation and the mental humiliation causes the freshmen to feel quite inferior. When this realization of incompetency is reached their first lesson in college has been learned; hence the time for advancement has begun. They become ambitious to overcome their faults, and will work conscientiously for improvement.

So hazing, when bringing these results and being done in this manner, cannot be criticised, and should not be abolished. It should be looked upon as part of the student's education.

F. R. LANG, '19.

Special Article by Prof. Dean.

Prof. Geo. R. Dean has an article on "The Predetermination of Higher Harmonics in the Alternating Circuit Transformer When the Impressed E. M. F. is a Simple Harmonic Function of the Time," in the *London Electrician* of June 9, 1916, page 325. Up to this time the problem of determining the magnetizing current of the transformer has been found only by graphical processes. Prof. Dean has now determined the analytical equation for it.

This Speaks for Itself.

"Several years ago, while I was connected with the — Coal Company, you sent to us a Mr. T. W. Blake, in the capacity of mining engineer. His services with us were exceedingly satisfactory." "I am now connected with the — Coal Co., and we are now in need of just such a man as Mr. Blake, or a man with such qualifications, and who would later make such a man as Mr. Blake."

F. E. DENNIE.